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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,869	08/21/2003	Kenji Katoh	116911	6860
25944 7	590 08/10/2005		EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928			TRAN, DIEM T	
ALEXANDRIA			ART UNIT	PAPER NUMBER
			3748	
•			DATE MAILED: 08/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		XY				
	Application No.	Applicant(s)	·· <u> </u>			
	10/644,869	KATOH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Diem Tran	3748				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status			1			
1) Responsive to communication(s) filed on 19 M	ay 2005.		\			
2a)⊠ This action is FINAL. 2b)☐ This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-3 and 5-19 is/are pending in the approach 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 5-12,18 and 19 is/are allowed. 6) ☐ Claim(s) 1, 13, 15 is/are rejected. 7) ☐ Claim(s) 2,3,14,16 and 17 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	<u> </u>	Evaminor				
10) The drawing(s) filed on is/are: a) acceedable Applicant may not request that any objection to the	epted or b) objected to by the l					
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati nty documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	·					
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				

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DETAILED ACTION

-This office action is in response to the amendment filed on 5/19/05. In this amendment, claim 1 has been amended; claims 12-19 have been added and claim 4 has been canceled.

Overall, claims 1-3, 5-19 are pending in this application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 13, 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Mizuno et al. (US patent 6,684,627).

Regarding claims 1, 13, 15, Mizuno discloses a method of purifying exhaust gas of an internal combustion engine comprising steps of:

disposing a NOx occluding and reducing catalyst (39) (see Figure 1) in an exhaust gas passage of the internal combustion engine (see col. 8, lines 3-15); purifying the NOx occluded by said catalyst by reduction with reducing components in the exhaust gas from said engine when the engine is operated at the stoichiometric air-fuel ratio or at the rich air-fuel ratio, wherein a sulfur-solidifying agent that forms a solid sulfate upon the reaction with SOx at the time of combustion is supplied to the engine to solidify the SOx in the exhaust gas thereby to prevent the SOx in the exhaust gas from being occluded by the NOx occluding and reducing catalyst, and the

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amount of supplying said sulfur-solidifying agent to the engine is controlled depending upon the condition of the atmosphere at said catalyst as detected by a sensor (40) (i.e. the air-fuel ratio of the exhaust gas at said catalyst) (see col. 2, lines 37-48, col. 8, lines 40-57).

Allowable Subject Matter

Claims 5-12, 18, 19 are allowed.

Claims 2-3, 14, 16, 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed on 5/19/05 have been fully considered but they are not deemed persuasive.

The Applicant argued that the Mizuno reference fails to disclose detecting the condition of the atmosphere at the catalyst by a sensor. The Examiner respectfully disagrees, since the Mizuno discloses an air fuel ratio sensor (40) being located upstream of the catalyst to detect an air fuel ratio at the catalyst (see Figure 1).

Accordingly, THIS ACTION IS MADE FINAL. See MPEP 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Conclusion

Any inquiry concerning this communication from the examiner should be directed

to Examiner Diem Tran whose telephone number is (571) 272-4866. The examiner

can normally be reached on Monday -Friday from 8:30 a.m.- 5:00p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas E. Denion, can be reached on (571) 272-4859. The fax number

for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information for

unpublished applications is available through Private PAIR only. For more information about

the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 800-786-9199 (toll-

free).

Diem Tran

Patent Examiner

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JI

August 3, 2005

THOMAS DENION
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

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